

111

TITLE TESTING ANTI-hPTK6-IgG-FUSION - SERAProj. No. 9211
Book No. _____

Exhibit L, pg. 1 of 31

From Page No. _____

Aim

Two rabbits have been immunised with the
hptk6-IgG fusion protein purified by W. Baron.

These sera will contain Ab's against both the
human hptk6 and the IgG (Fc) domain.

- Need to test these sera

Ran 20µg of

- hptk6-IgG fusion protein
- hptk5-IgG fusion protein

on 8% SDS - polyacrylamide gels

; Blotted to NC filters

Ponceau stained filters after transfer &
prepared strips for testing

- Photocopies of filters & attached over.

To Page No. _____

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30th Nov 97

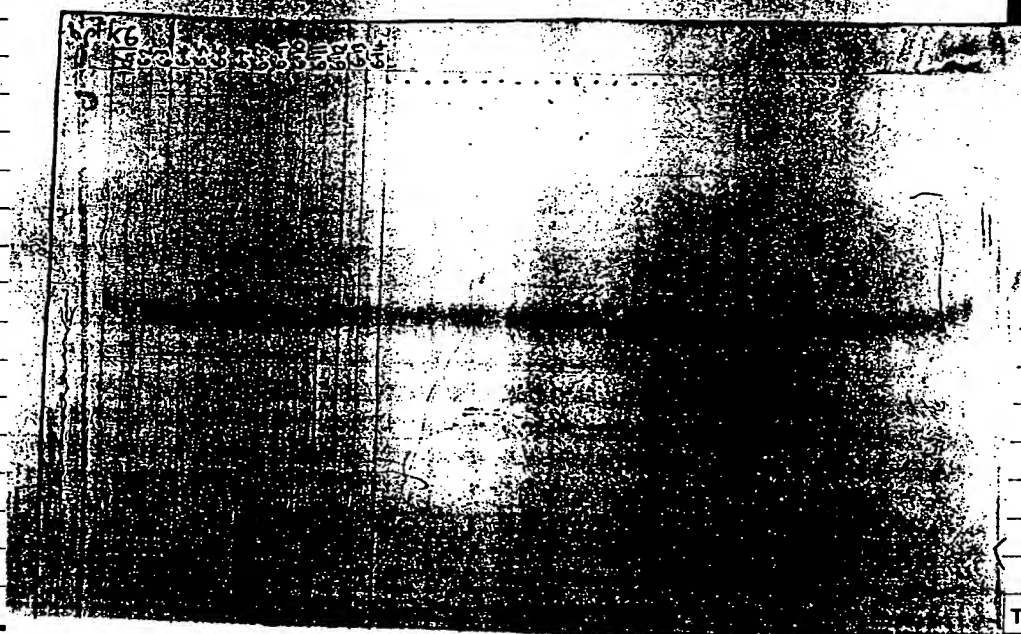
Project No. _____
Book No. 19211 TITLE TESTING & HPTK6 - SERA

2

From Page No. _____



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30 Nov 93

TITLE

TESTING OF HPTK-6 SERA.

Project No.

Book No. 19211

Exhibit L, pg. 3 of 31

From Page No. _____

Two batches of test serum obtained together
with prebleed controls

Rabbit #	PRE-BLEED DATE	BLEED AFTER APR SECOND BOOST
18243 - 71A	8/11/93	9/30/93
18243 - 71B	8/11/93	9/30/93

Used strips as follows

Strip #	SERUM	DIL'N	VOLUME
1	71A (Prebleed)	1/100	100 μ
2	71A	1/100	100 μ
3	71A	1/1000	10 μ
4	NONE - SECONDARY	ALONE	
5	71B (Prebleed)	1/100	100 μ
6	71B	1/100	100 μ
7	71B	1/500	20 μ
8	71B	1/1000	10 μ

Developed using 2° anti-rabbit - Phosphatase (Boehringer) with BCIP + NBT.

To Page No. _____

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30th Nov. 93

From Page No.____

FR. DA-1 5th Nov. 93.

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To Page No._____

TITLE TESTING X HPTK6 SERA

Proj No. _____
Book No. 9211

Exhibit L, pg. 5 of 31

From Page No. _____

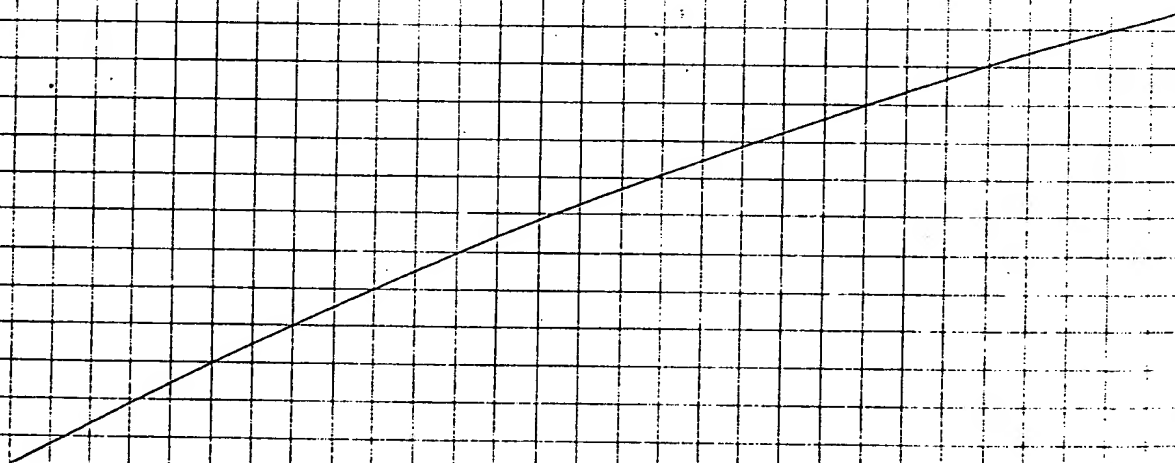
RESULTS & CONCLUSIONS

There appears to be a good differential reaction with the 71-B serum when used at especially 1:1000 dilution.

- There is a much stronger reaction against hptk6 than hptk5 on strips #8.

This can also be seen to a lesser extent with the lower dilutions of 71B, and perhaps with the 71A serum also.

The prebleeds and the no-primery controls are clean



To Page No. _____

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X.P. B.W.

30 Nov. 93

6

Project #

Book No. 19211 TITLE SCREENING CHO - Full LENGTH CLONES

From Page No. _____

Aim

Use the 71-B antisera to screen the 20 clones that will screen no generated that potentially express full-length PPTK-6.

Plates of 20 CHO cell lines were used; also used untransfected 90mm plates were confluent and grown in F12/DMEM -GHT.

Remove medium from cells, rinsed in PBS, then added 10mls PBS + 5mM EDTA - left at 37°C for 20-30 mins.

Cells were transferred to 15ml falcon tubes, washed 2x with PBS & then stored frozen at -20°C.

(21st Nov 93)

- The rinsed cells were lysed by resuspension into 450µl of RIPA buffer + PMSF + Aprotinin, left on ice for 15mins prior to spinning 2-3mins at 2000 rpm in the microfuge.

To Page No. _____

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30th Nov 93

TITLE

SCREENING full LENGTH EXPRESSION.

Proj No. _____
Book No. 921

Exhibit L, pg. 7 of 31

7

From Page No. _____

400 μ l of the supernatant was transferred to a new tube and 200 μ l of 3x Sample Buffer (+ β -ME) was added.

→ Samples were heated at 95°C for 10 mins.

80 λ aliquots loaded onto 8% SDS-PAGE gels.

GELS 1+2 ;

Mr 1 → 15

GEL 3

Mr 16, 17, 18, 19, 20, CHO [] Mr 16 → 20, CHO.

Ran slowly o/n.

(22nd Nov '93)

Blotted gels to N/C filters as normal,

Ponceau stained - photocopies shown overleaf, (Page 8)

To Page No. _____


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8

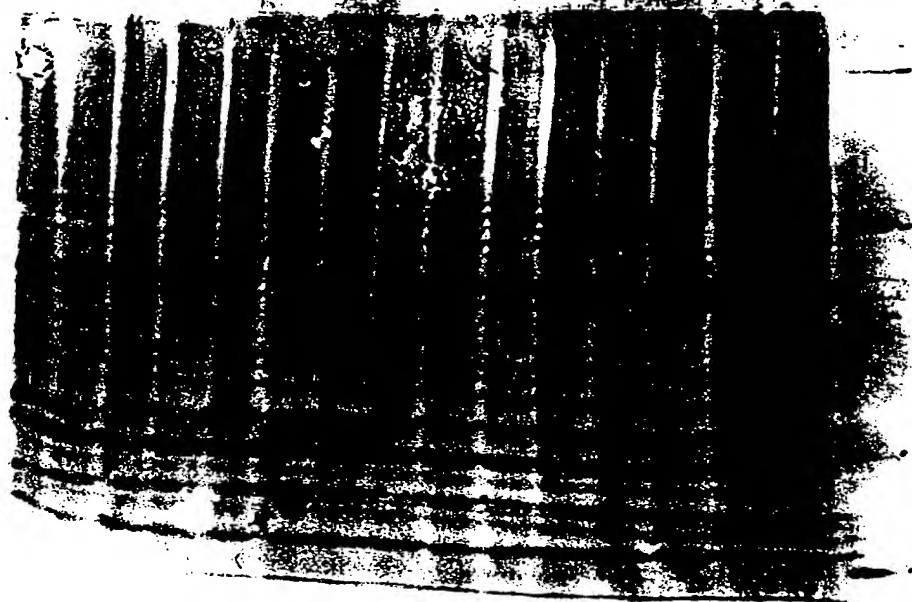
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Book No. 19211 TITLE

SCREENING Unit 1 19211 2-1-1971

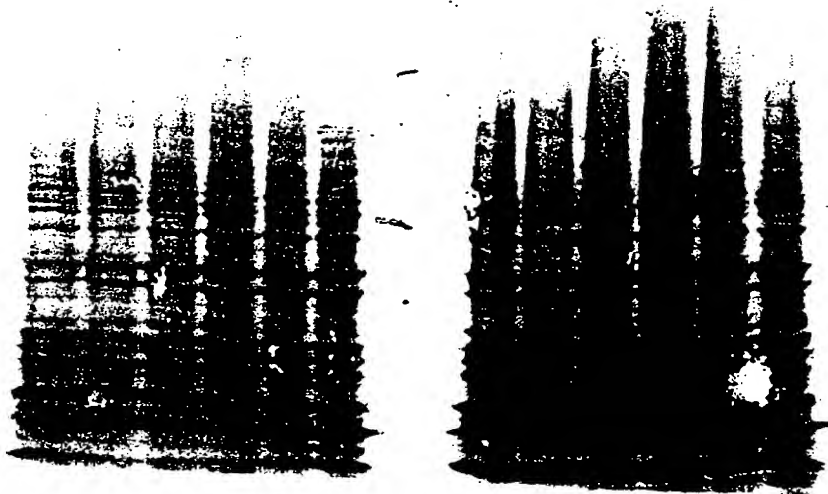
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From Page No.



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30 Nov 93

TITLE

SCREENING FULL LENGTH EXPRESSION

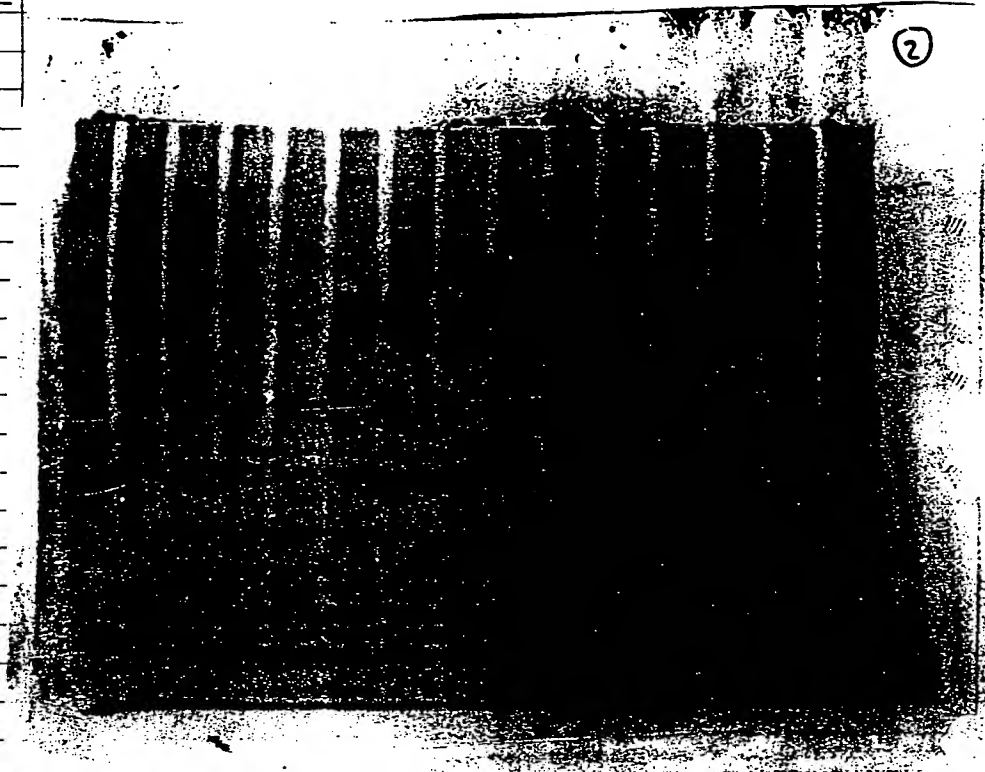
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Book No. 9211

Exhibit L, pg. 9 of 31

From Page No.



Gel 3 split with 2 experiments - gels 3 + 4.

GEL 1 + 3 probed with 1/1000 anti-hptk-6 F1B
as used previously ;

Gels 2 + 4 Probed with UBI monoclonal
anti - (P)-Tyr.

To Page No.

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G.P. [signature]

30th Nov 93

From Page No. _____

Developed with 2°-anti rabbit or anti-mouse (P-Tyr) - phosphate linked
& BCIP + NBT

Alkaline Phosphate Reaction:

- Wash Blot with Alk Phosph. Buffer 5 min.

- Make up Reaction Soln: 20 mls Alk Phosph Buff.
132 μ l Nitro blue tetrazolium
66 μ l BCIP

RESULTS & CONCLUSIONS

Blots are shown on Page 11 for α hptk-6
Page 12 for α - (P)-Tyr.

Sample # 18 appears to have a band of the
approx. right Mr coming up - this may also be
present to a lesser extent in #19 & #20 too;
+ much lower in #4.

In addition a band of much higher Mr ^{than expected} appears to be
expressed well in #16 and to a lesser extent in
#1, #17, #18.

To Page No. _____

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J.P. [Signature]

30th Nov 93

Proj. No. _____
Book No. 9211

Exhibit, pg. 11 of 31

11

TITLE _____

From Page No. _____

To Page No. _____

Witnessed & Understood by me, _____

Date _____

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30th Nov 93

ANTI - HPTK6

Proj. No. _____
Book No. 19211 TITLE _____

Exhibit L, pg. 12 of 31

From Page No. _____

(2)

15

16

4

C10/10

ANTI - (P) - TIR

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To Page No. _____

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30th Nov. 83

From Page No.

The anti-phosphotyrosine blot shows no band of the right mol. wt for hptk-6, suggesting that the receptor is not phosphorylated under these conditions - Note I did not add phosphatase inhibitors to the cells when I lysed them and this may be important!

However, there is a distinct band of approx 80 kDa coming up in most of the transfected samples cf. CHO cells alone. Moreover this band appears strongest in sample #18.

This may be related to hptk-6 expression - perhaps a target for the kinase

These results should tie in with whatever Will Baron picks out from a FACS analysis of these 20 cell lines using this criterion.

To Page No.

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30th Nov. 93

14

Project No.

Book No. 19211

TITLE TESTING FURTHER α HPK6 BLEEDS

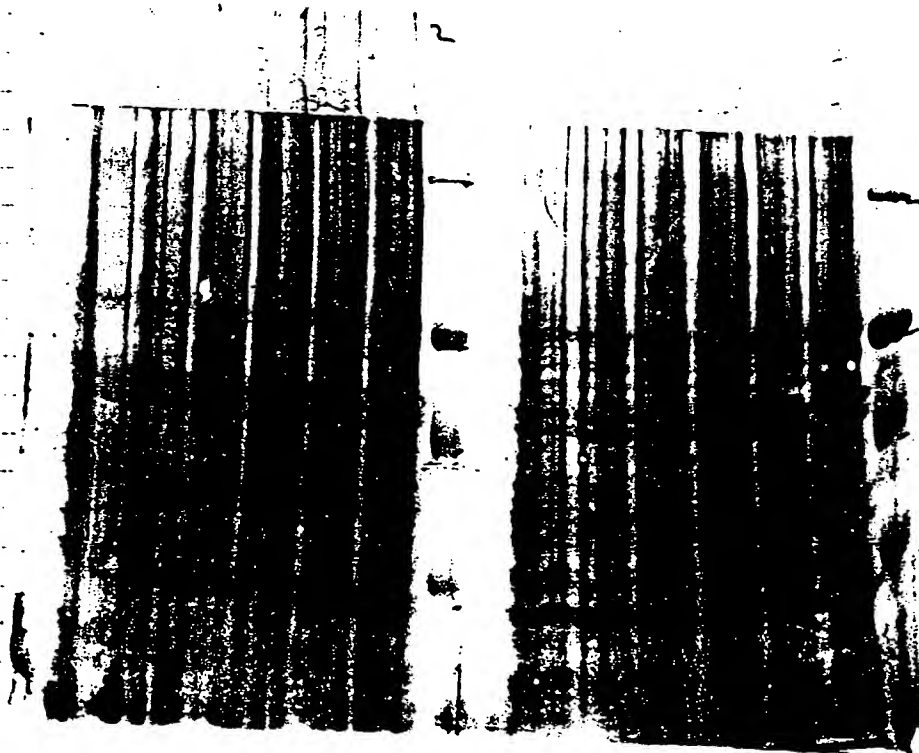
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Monday 6th Dec 93.

Ran 6 μ l aliquots of samples prepared on Nov 21st 93
on 0.8% gel.

Ran gel fast (~60 min)

Blotted to NK Filter ; Ponceau Stained + photocopied.



Gel overloaded
+ ran too fast!!

To Page No. _____

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K P M W

Dec 7th 93

TITLE

TESTING FURTHER BLOODS

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Book No.

19211

Exhibit L, pg. 15 of 31

From Page No.

Tuesday 7th Dec. 93

Obtained 2 new bleeds from rabbit 71-B
 Recd from 10/28/93 & 11/18/93.

Used 1/500 dilutions of these to decorate the
 blot
 Panel (1) : 10/28/93
 Panel (2) : 11/18/93



To Page No.

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J. P. Blv

7th Dec 93

From Page No. _____

RESULTS & CONCLUSIONS

Blot far too overloaded + messy to make any definite conclusion about this.

- Need to repeat using perhaps 30% aliquots of the surplus.

To Page No. _____

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7 Dec 93

TITLE

TESTING HPAK6 BLEEDS AGAIN.

Project N

Book No. 19211

Exhibit L, pg. 17 of 31

From Page No. _____

7th Dec. 93

Panel 2 New 8% gels
loaded with samples as previous

ie Mr 16, 17, 18, 19 20 CHO, Mr 16, 17, 18, 19 20 CHO

Run gels slowly o/n.

8th Dec 93

Transferred to N/C filters

Process stained - copies attached page 18,

Blotted with

PANEL

PROBE

1

7IB

2

7IB

3

7IB - Pre bleed

4

No Primary Ab.

- 2hrs RT; wash, then Probed all with 1:1000 of

Anti-Rabbit - Alk Phosph. conjugate

To Page No. _____

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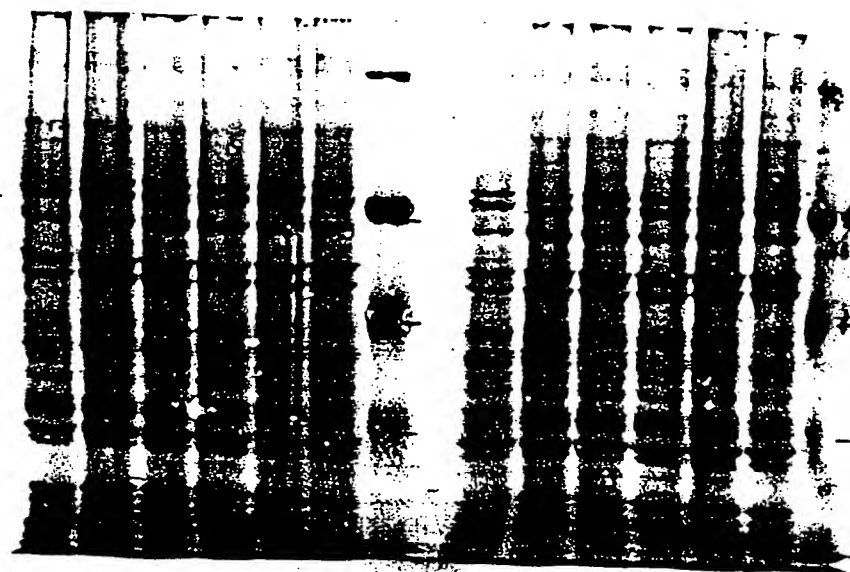
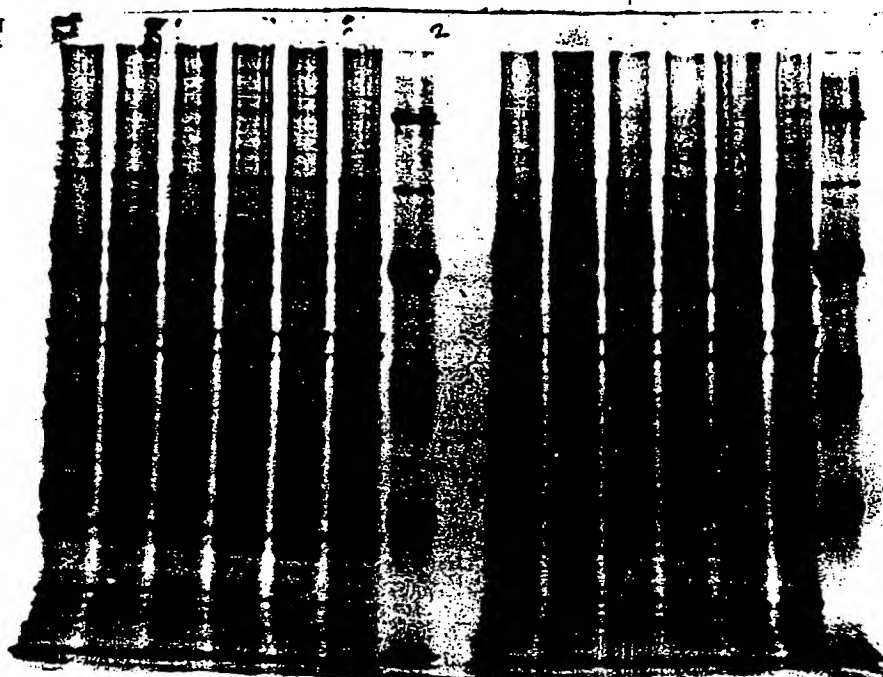
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9th Dec 93

From Page No. _____



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Page No. _____

Dec 93

TITLE

TESTING 2 HPTK-6 BLOOD AGAIN.

Proc. No. 1921
Book No.

Exhibit L, pg. 19 of 31

From Page No. —

Developed with BCIP / NBT as used.

;- Westerns attached Page 20

RESULTS & CONCLUSIONS

- Gels are much cleaner than before, although

I do not see any major bands that are obvious in the transfected cell lines of CHO untransfected.

There are a couple of minor bands at about the approx right Mr

To Page No. —

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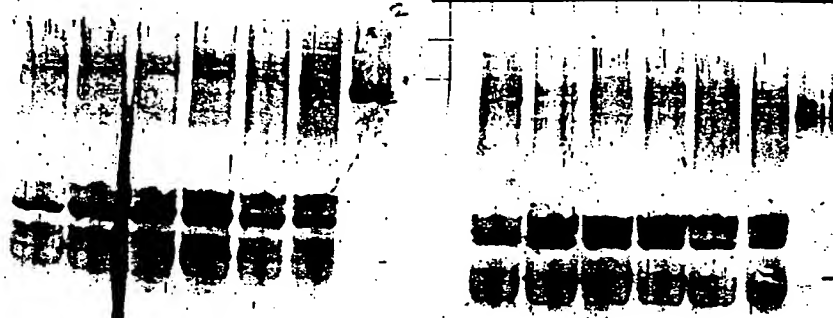
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9th Dec 93

From Page No. _____



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Page No. _____

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4th Dec 93

From Page No. _____

9th Dec 93

- Cells in 6 ^{well} ~~plate~~ ^{plates}

Well 1 : FL-16

2 FL-17

3 FL-18

4 FL-19

5 FL-20

6 CHO

Cells were prepared ~20 hrs before by Will Benson

- Inoculated with 250-500 $\times 10^3$ cells; grown o/n in DMEM + serum.

: Microscopic examination suggests about 50% confluency

- Removed media by suction

- washed with 3mls pre-warmed serum free DMEM + HEPES

- Sucked off wash

Added 1ml of serum free DMEM + HEPES.

Incubated at 37°C for 60 mins

To Page No. _____

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10th Dec 93 *KMBW*

22

Project No. _____
Book No. 19211 TITLE (P)-14K APOL STIMULATION

From Page No. _____

- Added Abs :- 20 μ l of each as shown below
 - This represents a 1/50 dilution of the serum.

PLATE 1 - no additions (unstimulated)

PLATE 2 - 71-B-① 5min stimulation

PLATE 3 71-B-① 30min stimulation

PLATE 4 71-B-② 5min

PLATE 5 71-B-2 30min

PLATE 6 71-B-Preimmune 5 min

PLATE 7 71-B-Preimmune 30min

① = 10/28/93 bleed

② = 11/18/93 bleed

Preimmune = 8/11/93 bleed

- Removed supernatants after the shown times & washed cells 1x with PBS.

→ Removed PBS

- Added 300 μ l of 1x SB.

To Page No. _____

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10th Dec 93

TITLE

(P-TYR - WESTERNS, AFTER STIMULATION)

Proj. No. 19211
Book No. 19211

Exhibit L, pg. 23 of 31

From Page No.

Transferred to eppendorf tubes. Heated 95°C for 5 min.
Loaded 10^μ (30μl) to 8% PAGE-SDS.

Tubes labelled as follows:

Plate 1 → Well 1
→ 1-1 2-1 3-1 ... etc
1-2
1-3
1-4
1-5
1-6

Gels loaded as follows:

GEL 1

FL-16 FL-17
Mr H1 2-1 3-1 4-1 5-1 6-1 7-1 Mr 1-2 2-2 3-2 4-2 5-2 6-2 7-2

GEL 2

FL-18 FL-19
Mr 1-3 2-3 3-3 4-3 5-3 6-3 7-3 Mr 1-4 2-4 3-4 4-4 5-4 6-4 7-4

GEL 3

FL-20 CHO
Mr 1-5 2-5 3-5 4-5 5-5 6-5 7-5 Mr 1-6 2-6 3-6 4-6 5-6 6-6 7-6

Ran gels slowly o/n.

To Page No.

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10 Dec 93

From Page No. _____

10th Dec 93

Blotted gels to NYC filter.

Very little protein on the filters; transfer worked fine because the markers are OK.

- E.g. lane of gel #3.



Decorated gel with UBS's anti-(P)-type monoclonal Ab.

Blocked filters in PBS / 5% BSA / 0.05% Tween-20.

; 2-3 hrs room temp.

; wash 3x PBS

To Page No. _____

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Date _____

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10. Dec 93

TITLE _____

Proj. No. 19211
Book No. _____

Exhibit L, pg. 25 of 31

From Page No. _____

- 2^o Ab was Anti-mouse - Phosphatase (Boehringer)

- 2 hrs in PBS / 5% BSA / Tween-20

- washed 3x PBS

1x Alk Phosph. buffer

{ 100mM Tris-Cl. pH 9.5
100mM NaCl
5mM MgCl₂ }

- Developed with NBT / BCIP.

- No immediate staining was apparent, so
let the staining proceed o/n. Stained gels
attached pages 26+27

RESULTS & CONCLUSIONS

Not enough protein loaded on the gels - need
to repeat the ~~of whole~~ gels + westerns with
these samples.

To Page No. _____

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13th Dec '93

26

Project No. _____
Book No. 19211 TITLE _____

From Page No. _____



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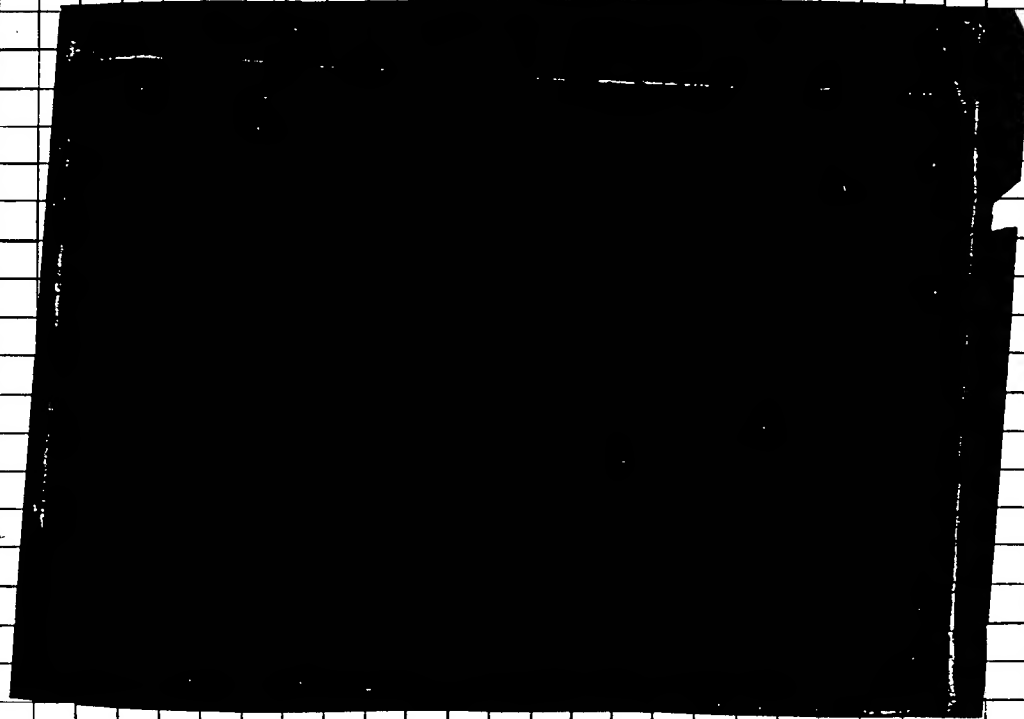
13 Dec 93

Project No. 19211
Book No. 19211

Exhibit L, pg. 27 of 31

TITLE _____

From Page No. _____



REPEAT OF GELS

13th Dec 93

Loaded 100µl of redwood sample (left top open when
heated to 95°C for 10mins) on to new
8% gels

- Ran gels at 30mA for ~5 hrs

Blotted to N/C filter for ~2 hrs.

To Page No. _____

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13 Dec 93

Project No

28

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TITLE

(P)-TYR AFTER STIMULATION

Project No.

Book No. 19211

Exhibit L, pg. 29 of 31

From Page No.

14th Dec 93

Decanted the Blots as previously described -
using the MAb (stored at -20°C)

- Developed using NBT/BCIP.

- Blots attached Pages 30+31

RESULTS & CONCLUSIONS

No specific bands are obvious after stimulation
with the phorbol & serum; -

There is a prominent band in CHO cells alone, at around
this size which has (P)-Tyr; this may obscure any
bands that are coming up with stimulation.

Alternately there may be no stimulation of kinase
activity with these serum / bleeds; new bleeds should
be tried.

Also keep in mind a metabolic (³⁵S) labelling followed by
anti-(P)-Tyr immuno-ppt.

To Page No.

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Project No. _____
Book No. 19211 TITLE _____

30

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15th Dec 93

Project No.
Book No. 19211

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TITLE _____

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15th Dec 93